LiteWare

UL

Battery uplighter with wireless DMX

User manual

Straight forward thinking

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Patent information

LiteWare charging apparatus: UK Patent No. GB2473474B · US LiteWare charging apparatus: Pat. pending US12/598,330 · LiteWare V2: Pat. pending GB1103835.3 · Lighting apparatus: Pat. pending GB1107353.3 · LiteWare: EU Reg'd Design 001600362-0001 · LiteWare Charger Case: EU Reg'd Design 001774555-0001 · LiteWare US Pat. USD616,579.

Firmware

Please contact your GDS International Sales Manager for queries about the firmware for this device.

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CHAPTER 1 Introduction

LiteWare UL with wireless DMX is a stand-alone light source. The unit can be controlled by DMX transmitted wirelessly and in stand-alone operation using 50 preset colours and 20 preset fade and snap sequences.

Product features and specifications

- Full RGB with 16-bit dimming curve
- W-DMX (standard), SHoW DMX and Lumen Radio (optional)
- Standard 25 hour runtime from fully charged battery (charging cycle 6-8 hours)
- 40 W RGB LED emitter
- Lumen output RGB 825 in calibrated mode, personalities zero and one
- Lens beam angle options available 19, 24, 37 degrees when ordering as done at manufacture
- 50 preset colours, two-thirds Lee and Rosco colour swatch
- 20 preset colour snaps/fades
- RX on every unit
- Finished in mirrored stainless steel to blend in with any surrounding
- Integral rugged aerial design
- IP45 – interior/exterior use
- Weatherproof design
- Available singularly or in flight cases with inbuilt charging
- Kensington Security lock ready
- Easily upgradable firmware on all models
- Low heat
- No cables
- No 230 Volt
- Made in UK

Weights and dimensions

Part	Weight, kg	Dimensions, cm
Battery base unit	13.2	Height: 35.0, Depth: 18, Width: 18
Flight case (empty)	50.7	Length: 79. Width: 50. Height: 75 (including wheels).

Accessories

Six-way charging case; four-way charging case; grindle cap.

Conformity

LiteWare UL conforms to the following standards:

EN 61000-6-3: Light Industrial Emissions
EN 61000-4-2: Heavy Industrial Immunity

Further information can be obtained from technical@gds.uk.com

CHAPTER 2 Charging the system

There are two charging methods available for LiteWare UL.

- flight case charger system
- single unit charger

Both charger options are designed specifically for LiteWare UL. Please DO NOT use any other charging system as this can damage the battery base unit. The charging cycle is approximately six hours.

Flight case charger system

1. Ensure that the flight case is plugged into a mains supply with the supplied mains lead.
2. Place the LiteWare UL into the flight case. The battery base unit starts charging. During charging, the button LED is on constantly. The battery is fully charged when the button LED flashes. LiteWare UL is now ready for use.

Upon disconnecting mains power to the flight case, all charged battery base unit s continue to flash the button LED. This is normal. To switch this flashing button LED off, briefly lift the battery base unit out of the case and replace.

Single unit charger

Plug the supplied charger into the base of the battery base unit. During charging, the button LED is on constantly. The battery base unit is fully charged when the button LED flashes.

Note: If you leave the LiteWare UL connected to the single charger without the charger connected to mains power the battery will flatten.

Low battery

When the battery voltage becomes too low, the battery base unit goes to sleep and the **TOP** button LED flashes at a fast rate. You must recharge the battery base unit before you can use it again.

Battery care

The LiteWare UL uplighter contains a sealed (GEL) lead-acid battery. The battery should not be left in a discharged state for long periods because this will reduce its capacity. We recommend leaving LiteWare UL on charge permanently when not in use.

Note: If you remove the battery, please observe the correct polarity upon reconnection.

The following points should help maintain the long life of your LiteWare battery:

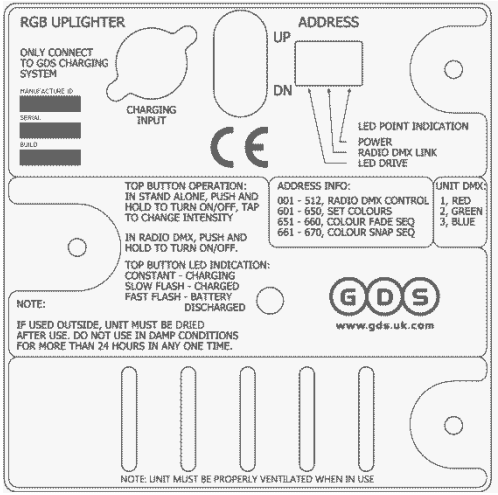
- When in use, LiteWare automatically switches off when the battery voltage reaches a set lower limit. This is to avoid any deep discharge damage of the battery. It is not recommended that LiteWare batteries be left for any prolonged period in this state.
- LiteWare should always be fully re-charged as soon as possible. Once fully charged LiteWare can be stored.
- If LiteWare is to be unused for long periods, we recommend LiteWare is charged every two months to keep the batteries topped up.
- If LiteWare is stored in hotter environments (above 20 degrees), we recommend a monthly storage charge.
- From market data, the estimated number of uses in a normal environment is around 200 cycles. This may be higher if LiteWare is not run to 'turning off automatically' every time. We recommend replacing LiteWare battery every two years.

CHAPTER 3 Operating the system

This chapter describes:

- Switching the system on/off
- Operating modes (wireless and standalone)
- The controls and display

Full operating instructions are provided in this chapter. In addition, the bottom of the battery base unit has a label with various operational and safety information. Below is a schematic of the label:


RGB UPLIGHTER
ADDRESS
UP
DN
ONLY CONNECT TO GDS CHARGING SYSTEM
MANUFACTURE ID
SERIAL
BUILD
CHARGING INPUT
LED POINT INDICATION
POWER
RADIO DMX LINK
LED DRIVE
TOP BUTTON OPERATION:
IN STAND ALONE, PUSH AND HOLD TO TURN ON/OFF, TAP TO CHANGE INTENSITY
IN RADIO DMX, PUSH AND HOLD TO TURN ON/OFF.
ADDRESS INFO:
001 - 512, RADIO DMX CONTROL
601 - 650, SET COLOURS
651 - 660, COLOUR FADE SEQ
661 - 670, COLOUR SNAP SEQ
UNIT DMX:
1, RED
2, GREEN
3, BLUE
TOP BUTTON LED INDICATION:
CONSTANT - CHARGING
SLOW FLASH - CHARGED
FAST FLASH - BATTERY DISCHARGED
NOTE:
IF USED OUTSIDE, UNIT MUST BE DRIED AFTER USE. DO NOT USE IN DAMP CONDITIONS FOR MORE THAN 24 HOURS IN ANY ONE TIME.
GDS
www.gds.uk.com
NOTE: UNIT MUST BE PROPERLY VENTILATED WHEN IN USE

Switching the system on/off

Press and hold the **TOP** button for 1.5 seconds. The button LED switches on to show the battery base unit is on. Press and hold the **TOP** button again to switch off.

Operating modes

There are two operating modes:

- Wireless DMX mode (uses addresses in range 1-510)
- Stand-alone mode (uses addresses in the range 601-670)

Each address value corresponds to an output colour at the head. To select an address you use the UP and DN buttons, which are situated on the bottom of the battery base unit (see page 11 for instructions).

Wireless DMX mode (address 001-510)

Wireless DMX mode uses addresses 001-510.

Output level in wireless DMX mode is controlled by the wireless DMX controller that you use with the system; the LiteWare UL battery base unit responds to the DMX levels it receives.

In RGB mode, DMX channel allocations are as follows:

Start address	red level
Start address + 1	green level
Start address + 2	blue level

For example, if your start address (the first channel that the unit listens to) is 001, then the red level is allocated to 001, green to 002 and blue to 003.

In wireless DMX mode, the battery base unit holds the last DMX value upon loss of signal or DMX. The battery base unit stores this level when turned off so it can be resumed when it is powered back up. If the battery is disconnected these values are lost.

Wireless DMX linking and unlinking
The link status is shown on the LED display on the base of the battery base unit when LiteWare UL is powered on.

When the battery base unit is placed in a flight case it will automatically unlink from the transmitter.

Refer to your W-DMX transmitter user manual for further information about the linking process.

Stand-alone mode (addresses 601-670)

Stand-alone mode uses addresses 601-670.

To control the output level, press the TOP button briefly: each time you press the TOP button the output is dimmed by a fixed amount. There are seven output levels. When the TOP button is pressed for the seventh time, the output returns to full level.

The table below describes the address ranges available in stand-alone mode.

Range	What	Description
601-650	Fixed colours	The fixed colours are listed in 'Fixed colour table' on page 12.
651-655	Colour fade sequence 1	A sequence of pre-programmed colour fade transitions using brilliant colours. The higher the address value, the slower the rate of transition.
656-660	Colour fade sequence 2	As 'Colour fade sequence 1' but using pastel colours.
661-665	Colour snap sequence 1	A sequence of pre-programmed colour snaps using brilliant colours. The higher the address value, the slower the rate of transition.

Range	What	Description
666-670	Colour snap sequence 2	As ‘Colour snap sequence 1’ but using pastel colours.

Run times for UL when on full white –

Percentage of maximum output	Number of pushes of top button	Run time (hh:mm)
100		15:00
90	1	16:05
80	2	20:20
70	3	27:43
60	4	36:20
50	5	56:24
40	6	137:27

The controls and display

On the bottom of the battery base unit are the UP and DN buttons, and the ADDRESS display panel.

UP and DN buttons

The UP and DN buttons are used to select an address.

Button	Behaviour
UP	Increments the address by 1.
DN	Decrements the address by 1 (001 is the lowest value).

Tip: The casing of the battery base unit is cut away at the bottom which allows these buttons to be reached even when the battery base unit is standing vertically upright.

Fast address searching and address boundaries
If you press and hold the UP or DN button the address changes slowly then gradually speeds up. When the end of an address range is reached (see below) the address stays at that value. To select an address in the next range, release the button then use the UP or DN button again.

Fast searching and address ranges provide an easy way to select addresses quickly. The address ranges for both wireless DMX and stand-alone modes summarised in the table below. See page 12 for detailed descriptions of the stand-alone address ranges.

Range	What
001-510	Wireless DMX mode address
601-650	Fixed colours (stand-alone mode)
651-655	Colour fade sequence 1 (stand-alone mode)
656-660	Colour fade sequence 2 (stand-alone mode)
661-665	Colour snap sequence 1 (stand-alone mode)
666-670	Colour snap sequence 2 (stand-alone mode)

The address display panel

The address panel displays the current address. The display goes mostly blank after five seconds of button inactivity. Press either the UP or DN button to wake the unit up.

When the display goes mostly blank, there are a few small LED point indicators that show information about the state of the battery base unit. These are described in the table below.

Indicator	Description
POWER	Shows whether the battery base unit is on or off.
RADIO DMX LINK	Shows when a radio DMX link is present.
LED DRIVE	Shows when a channel is ‘on’.

Fixed colour table

Address values and colours of the 'fixed colours' (addresses in the range 601-650):

Address	Colour	LEE ref	ROSCO ref
601	RED		
602	GREEN		
603	BLUE		
604	YELLOW		
605	CYAN		
606	MAGENTA		
607	ORANGE		
608	GOLD		
609	PINK		
610	VIOLET		
611	AQUA		
612	SKY BLUE		
613	FULL WHITE		
614	COOL WHITE		
615	WARM WHITE		
616	YELLOW	LEE 101	
617	STRAW	LEE 103	
618	ORANGE	LEE 105	
619	PRIMARY RED	LEE 106	
620	LIGHT ROSE	LEE 107	
621	DARK PINK	LEE 111	
622	MAGENTA	LEE 113	
623	BLUE	LEE 115	
624	MED BLUE GREEN	LEE 116	
625	DARK BLUE	LEE 119	
626	BRIGHT PINK	LEE 128	
627	MEDIUM BLUE	LEE 132	
628	GOLDEN AMBER	LEE 134	
629	DEEP GOLDEN AMBER	LEE 135	
630	PALE LAVENDER	LEE 136	
631	APRICOT	LEE 147	
632	DARK LAVENDER	LEE 180	
633	CHOCOLATE	LEE 156	
634	JUST BLUE	LEE 079	
635	SURPRISE PINK	LEE 194	
636	SCARLET	LEE 024	
637	SURPRISE PEACH	LEE 017	
638	FIRE	LEE 019	
639	ENGLISH ROSE	LEE 108	
640	MAUVE	LEE 126	
641	BRIGHT BLUE	LEE 141	
642	ALICE BLUE		ROSCO 378
643	ROSE INDIGO		ROSCO 358
644	URBAN BLUE		ROSCO 081
645	COOL BLUE		ROSCO 066
646	LIGHT SALMON		ROSCO 030
647	MAYAN SUN		ROSCO 318
648	CHERRY ROSE		ROSCO 332
649	FLESH PINK		ROSCO 034
650	SKELTON EXOTIC SANGRIA		ROSCO 039

CHAPTER 4 Safety information

WARNING! Class 2M LED product. Do not look into the beam from a distance of less than 40 cm (16 inches). Do not stare into the beam for extended periods at a short distance. Do not view the beam directly with optical instruments.

This product is for professional use only. It is not for household use. This product presents risks of severe injury or death due to fire hazards, electric shock and falls.

READ THIS MANUAL before installing, powering or servicing the fixture, follow the safety precautions listed below and observe all warnings in this manual and printed on the fixture. If you have questions about how to operate the fixture safely, please contact Global Design Solutions, www.gds.uk.com

PROTECTION FROM FIRE Provide a minimum clearance of 0.1 m (4”) around fans and air vents. Do not modify the fixture or install other than genuine GDS parts. Do not stick filters, masks or other materials directly onto LEDs. Do not operate the fixture if the ambient temperature (Ta) exceeds 40 °C (104 °F).

PROTECTION FROM INJURY The LED emission presents a hazard to eyesight at a distance of 4–40 cm (1.6–16”) when the eye is exposed to the beam for longer than 0.25 seconds.

• Do not look at LEDs from a distance of less than 40 cm (16”) without suitable protective eyewear.

• Do not look at LEDs with magnifiers or similar optical instruments that may concentrate the light output.

INSTALLATION Install fixtures on a level, stable surface where they do not present a hazard of tripping or falling.

OUTDOOR USE If used outside, the unit must be dried after use. Do not use in damp conditions for more than 24 hours at a time.

DISPOSING OF THIS PRODUCT Global Design Solutions products are supplied in compliance with Directive 2002/96/EC of the European Parliament and of the Council of the European Union on WEEE (Waste Electrical and Electronic Equipment), as amended by Directive 2003/108/EC, where applicable. Help preserve the environment! Ensure that this product is recycled at the end of its life. Your supplier can give details of local arrangements for the disposal of Global Design Solutions products.